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## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1-4. (cancelled)
- 5. (currently amended) An isolated human N-type calcium channel hα<sub>1B1SFVG</sub> subunit nucleic acid molecule which encodes a human N-type calcium channel hα<sub>1B1SFVG</sub> subunit polypeptide comprising SEQ ID NO:4 which comprises SEQ ID NO:2 in an extracollular domain.
  - 6. (cancelled)
- 7. (currently amended) The An isolated human N-type calcium channel hα<sub>IB+SFVG</sub> subunit nucleic acid molecule of claim 5, wherein the human N-type calcium channel hα<sub>IB+SFVG</sub> subunit nucleic acid molecule comprises comprising the nucleotide sequence of SEQ ID NO:3.
- 8. (currently amended) The An isolated human N-type calcium channel hα<sub>1B+SFVG</sub> subunit nucleic acid molecule of claim 5, wherein the human N-type calcium channel hα<sub>1B+SFVG</sub> subunit nucleic acid molecule consists consisting of the nucleotide sequence of SEQ ID NO:3.
  - 9. (cancelled)
- 10. (currently amended) An isolated fragment of the human N-type calcium channel halb+SPVG subunit nucleic acid molecule of claim 5, wherein the fragment comprises SEQ ID NO:1.
- 11. (previously presented) An expression vector comprising the isolated human N-type calcium channel hα<sub>1B+SFVG</sub> subunit nucleic acid molecule of claim 5 operably linked to a promoter.
- 12. (previously presented) An expression vector comprising the isolated human N-type calcium channel hα<sub>IB+SFVG</sub> subunit nucleic acid molecule of claim 10 operably linked to a promoter.

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13. (original) A host cell transformed or transfected with the expression vector of claim 11.

14-35. (canceled)